

FIG. 1

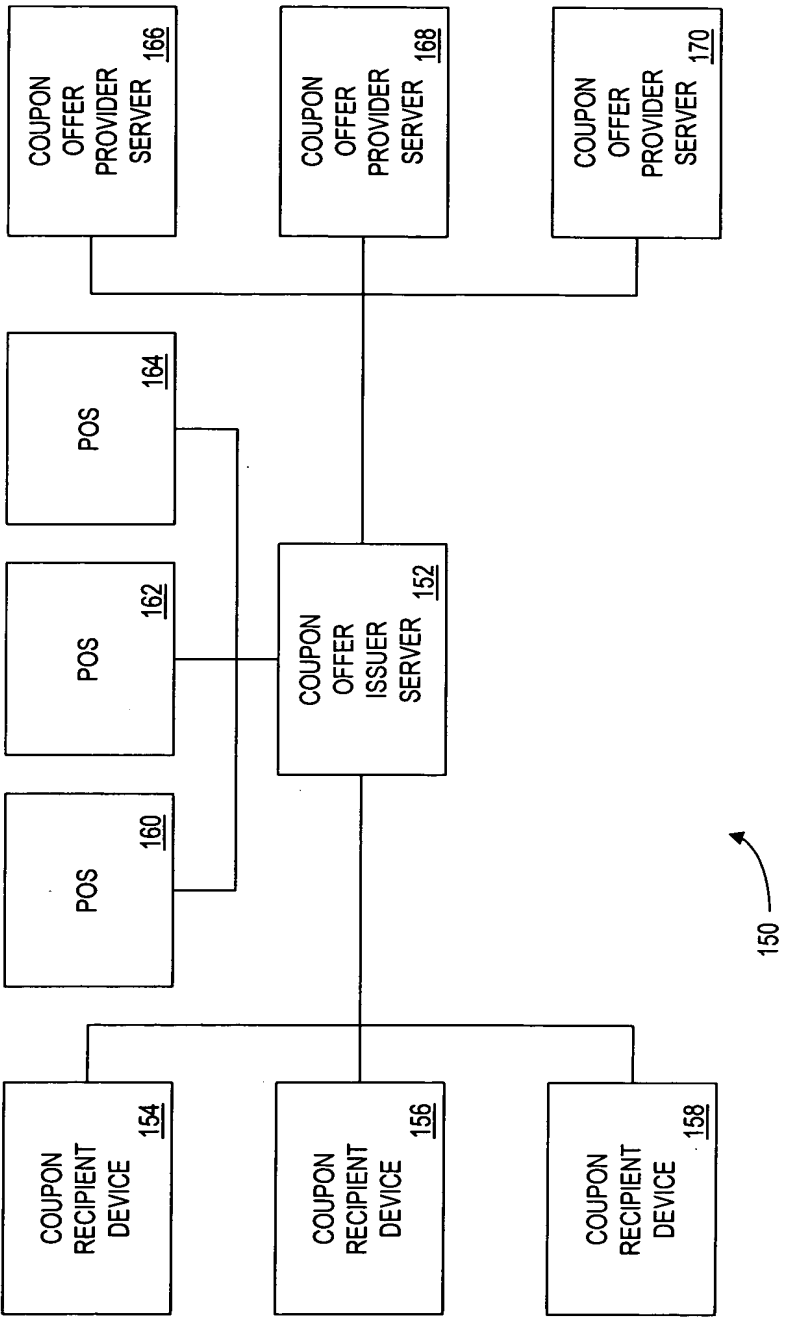


FIG. 2

FIG. 3

152

RAM 212

ROM 214

CLOCK 204

INPUT DEVICE 208

PROCESSOR 200

OUTPUT DEVICE 206

COMMUNICATIONS PORT 202

210

PROGRAM 220

AVAILABLE COUPON DATABASE 222

COUPON RECIPIENT DATABASE 224

COUPON TRACKING DATABASE 226

ISSUED COUPON DATABASE 228

RECIPIENT VARIABLE VALUE DATABASE 230

PAYMENT PROCESSOR 218

FIG. 4

222

COUPON IDENTIFIER 250	COUPON DESCRIPTION 252	INITIAL BENEFIT 254	PRIMARY RECIPIENT INCREASE BENEFIT 256	SECONDARY RECIPIENT INCREASE BENEFIT 258	TERTIARY RECIPIENT INCREASE BENEFIT 260	MAXIMUM COUPON BENEFIT 262	EXPIRATION DATE 264	INCREASE END DATE 266
CO-123456	CENTS-OFF TOTAL GROCERY BILL	\$0.25	\$0.15	\$0.10	\$0.01	N/A	02/01/2000	12/01/1999
CO-123457	DISCOUNT FROM TOY MAKER	\$2.00	\$0.25	\$0.05	\$0.01	\$9.00	2 MOS. FROM ISSUANCE	1 MO. FROM ISSUANCE
CO-123458	% OFF FROM SUPER SHOP STOP	1% OFF TOTAL	0.5%	0.05%	0.01%	8%	09/08/1999	06/08/1999
CO-123459	BUY ONE JUICE, GET % OFF SECOND JUICE	5%	0.1%	0.1%	0.01%	12%	SIX MONTHS FROM COUPON REGISTRATION	10/02/1998

268

270

272

274

FIG. 5

300

RECIPIENT NAME: DAN NEEDHAM				302
RECIPIENT IDENTIFIER: R-87654				304
CONTACT INFORMATION: DNEEDH@GSEND.EDU				306
ACCOUNT IDENTIFIER: 7766-6555-4443-3322				308
318	LEVEL 312	COUPON IDENTIFIER 310	DATE ISSUED 314	EXPIRATION DATE 316
320	1	CO-123456	07/03/1999	02/01/1999
322	2	CO-123457	10/20/1999	12/20/1999
	3	CO-123458	06/17/1999	09/08/1999



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350

RECIPIENT VARIABLE BENEFIT: 1.0				364
RECIPIENT NAME: DAN NEEDHAM				352
RECIPIENT IDENTIFIER: R-87654				354
COUPON OFFER IDENTIFIER: CO-123456				356
STATUS: REDEEMED				358
DATE ISSUED: 07/03/1999				360
UPSTREAM RECIPIENT IDENTIFIER: N/A				362
PRIMARY DOWNSTREAM RECIPIENT IDENTIFIER 366	STATUS 368	SECONDARY DOWNSTREAM RECIPIENT IDENTIFIER 376	STATUS 378	
R-76543	RECEIVED	R-80422	REDEEMED	
		R-80423	REGISTERED	
		R-80424	RECEIVED	
R-76544	REDEEMED	R-20034	RECEIVED	
		N/A	N/A	
		N/A	N/A	
R-76545	REDEEMED	R-18876	REGISTERED	
		R-18877	RECEIVED	
		R-18878	REDEEMED	

370

372

374

FIG. 7

[illegible]

FIG. 8



574

FIG. 9



<div> <div>RECIPIENT IDENTIFIER: R-87654</div> <div>652</div> </div>					
<div>COUPON IDENTIFIER</div> <div>654</div>	<div>INITIAL BENEFIT</div> <div>656</div>	<div>PRIMARY RECIPIENT MULTIPLIER</div> <div>658</div>	<div>PRIMARY RECIPIENT INCREASE BENEFIT</div> <div>660</div>	<div>AVERAGE PRIMARY RECIPIENT VARIABLE BENEFIT</div> <div>662</div>	<div>PRIMARY RECIPIENT TOTAL BENEFIT</div> <div>664</div>
CO-123456	\$0.25	3	\$0.15	1.0	\$0.45

SECONDARY RECIPIENT MULTIPLIER <u>666</u>	SECONDARY RECIPIENT INCREASE BENEFIT <u>668</u>	AVERAGE SECONDARY RECIPIENT VARIABLE BENEFIT <u>670</u>	SECONDARY RECIPIENT TOTAL BENEFIT <u>672</u>
30	\$0.10	1.2	\$3.60

TERTIARY RECIPIENT MULTIPLIER <u>674</u>	TERTIARY RECIPIENT INCREASE BENEFIT <u>676</u>	AVERAGE TERTIARY RECIPIENT VARIABLE BENEFIT <u>678</u>	TERTIARY RECIPIENT TOTAL BENEFIT <u>680</u>	COUPON CURRENT BENEFIT <u>682</u>	MAXIMUM BENEFIT <u>684</u>
174	\$0.01	1.1	\$1.91	\$6.21	\$7.00

FIG. 10

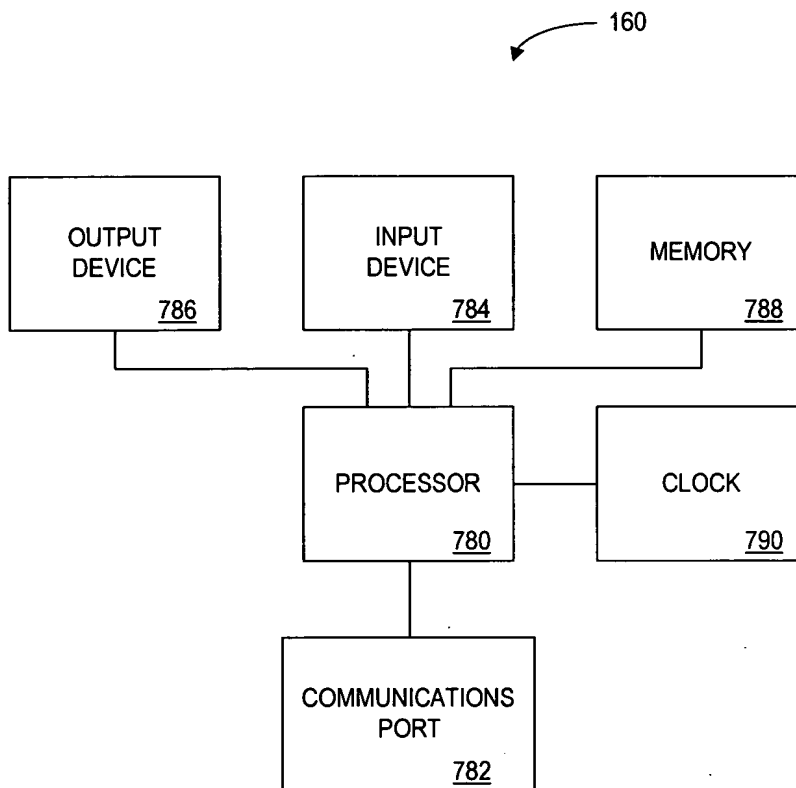
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230

RECIPIENT STATUS 700	RECIPIENT VARIABLE BENEFIT 702
NEVER RECEIVED	1.4
NEVER REGISTERED	1.3
NEVER REDEEMED	1.2
PREVIOUSLY RECEIVED	1.0
PREVIOUSLY REGISTERED	1.0
PREVIOUSLY REDEEMED	1.0
FREQUENTLY RECEIVED	0.8
FREQUENTLY REDEEMED	0.9

FIG. 11

FIG. 12



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graph TD; START([START]) --> 802[RECEIVE REQUEST FOR A COUPON FROM RECIPIENT 802]; 802 --> 804{IS RECIPIENT AN INITIAL RECIPIENT? 804}; 804 -- YES --> 806[ISSUE COUPON 806]; 804 -- NO --> 810{HAS RECIPIENT ALREADY RECEIVED THE COUPON? 810}; 810 -- YES --> END1([END]); 810 -- NO --> 812[UPDATE UPSTREAM RECIPIENT RECORDS ASSOCIATED WITH CURRENT RECIPIENT 812]; 812 --> 806; 806 --> 808[STORE INDICATION OF COUPON ISSUANCE TO RECIPIENT 808]; 808 --> END2([END]);
```

Flowchart 800 illustrates a method for issuing a coupon to a recipient. The process begins with a START terminal, leading to step 802: RECEIVE REQUEST FOR A COUPON FROM RECIPIENT. This leads to decision 804: IS RECIPIENT AN INITIAL RECIPIENT? If YES, the process proceeds to step 806: ISSUE COUPON. If NO, the process proceeds to decision 810: HAS RECIPIENT ALREADY RECEIVED THE COUPON? If YES, the process proceeds to an END terminal. If NO, the process proceeds to step 812: UPDATE UPSTREAM RECIPIENT RECORDS ASSOCIATED WITH CURRENT RECIPIENT. From step 812, the process proceeds to step 806. From step 806, the process proceeds to step 808: STORE INDICATION OF COUPON ISSUANCE TO RECIPIENT, which then leads to an END terminal.

FIG. 14

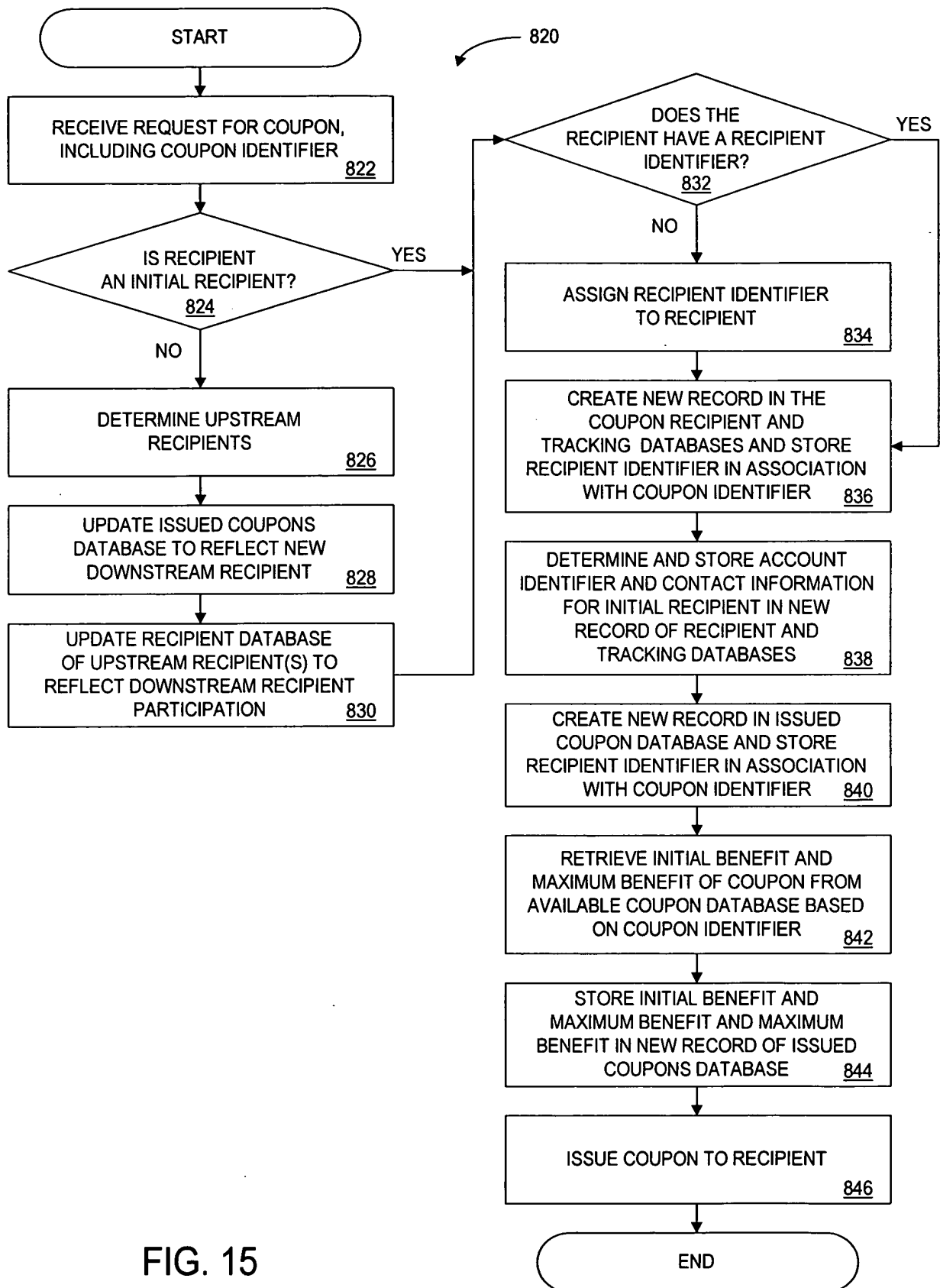


FIG. 15

P **E** **R** **S** **O** **N** **A** **T** **I** **O** **N**

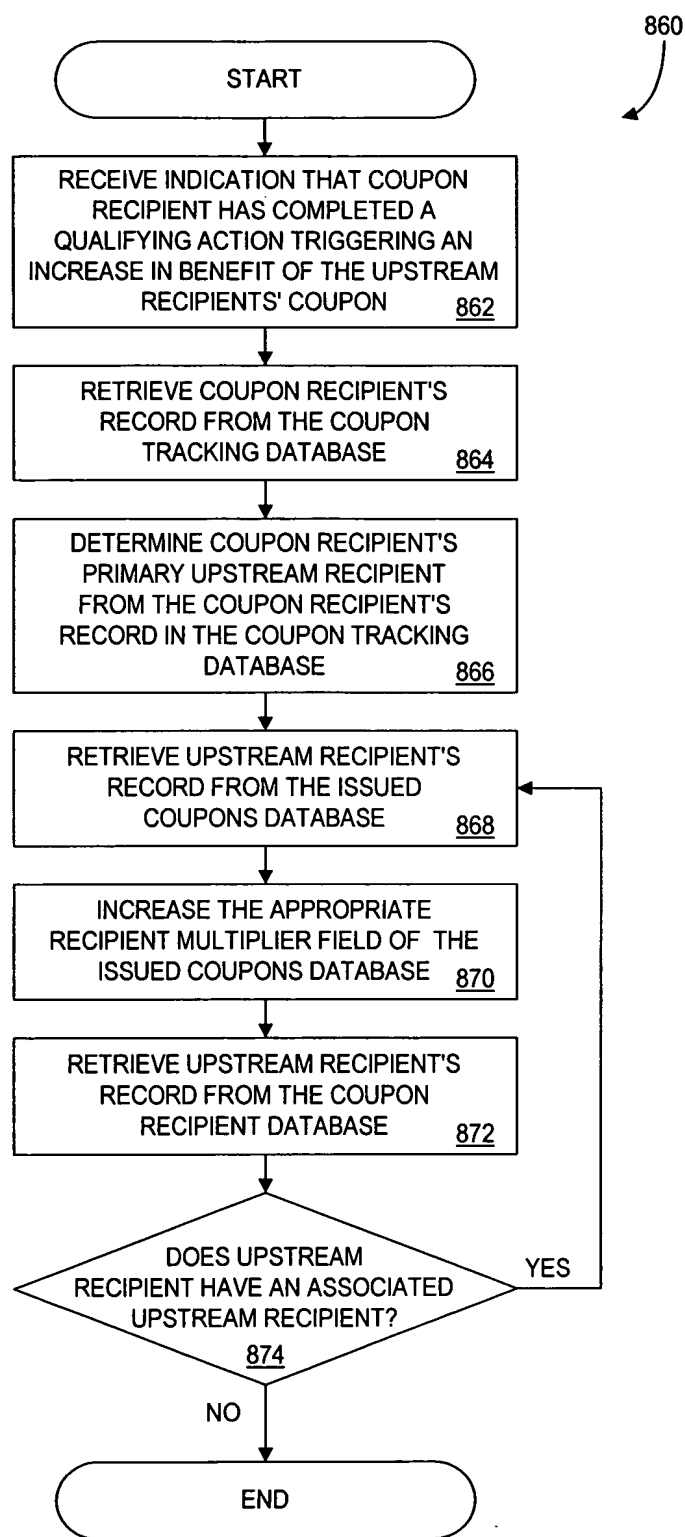
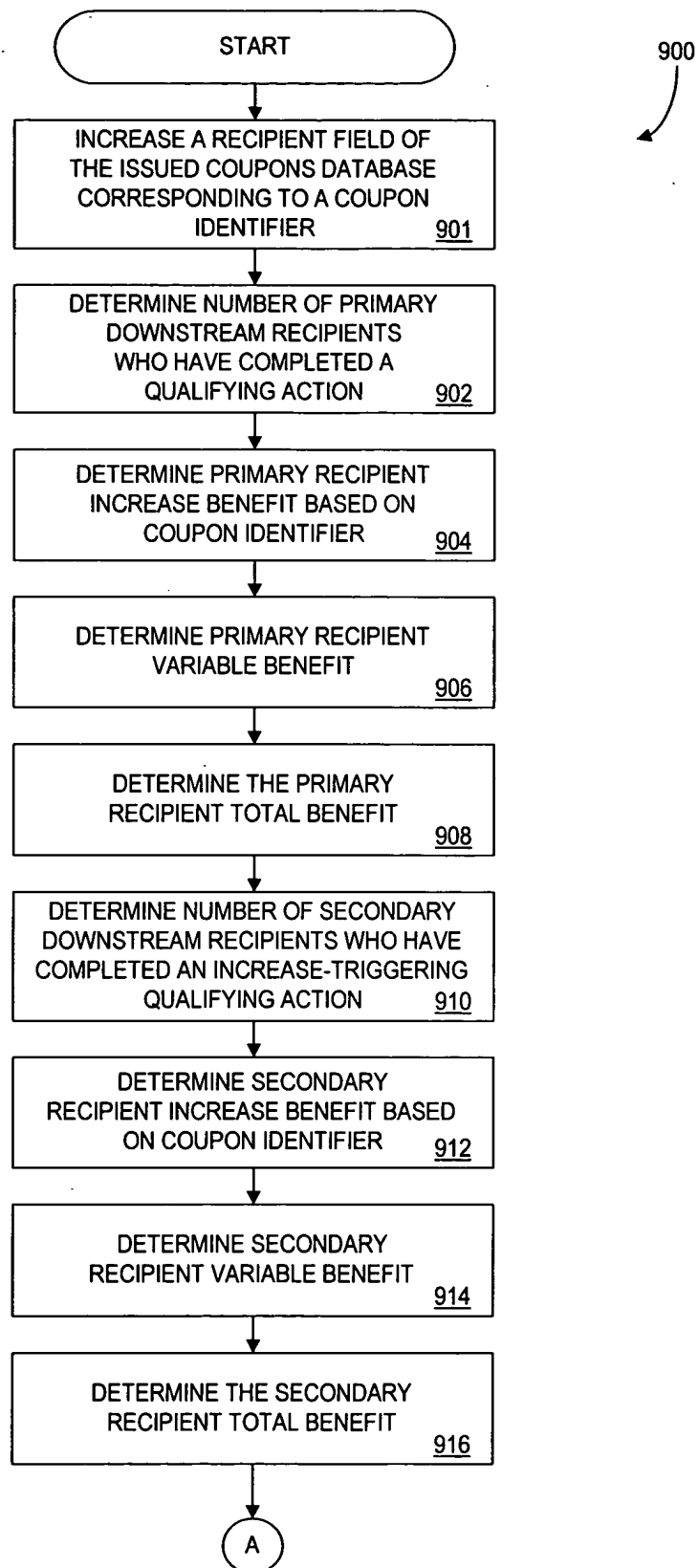


FIG. 16

Predictors of the Effectiveness of the Intervention



TO FIG. 18

FIG. 17

DECEMBER 9, 1978



FIG. 18

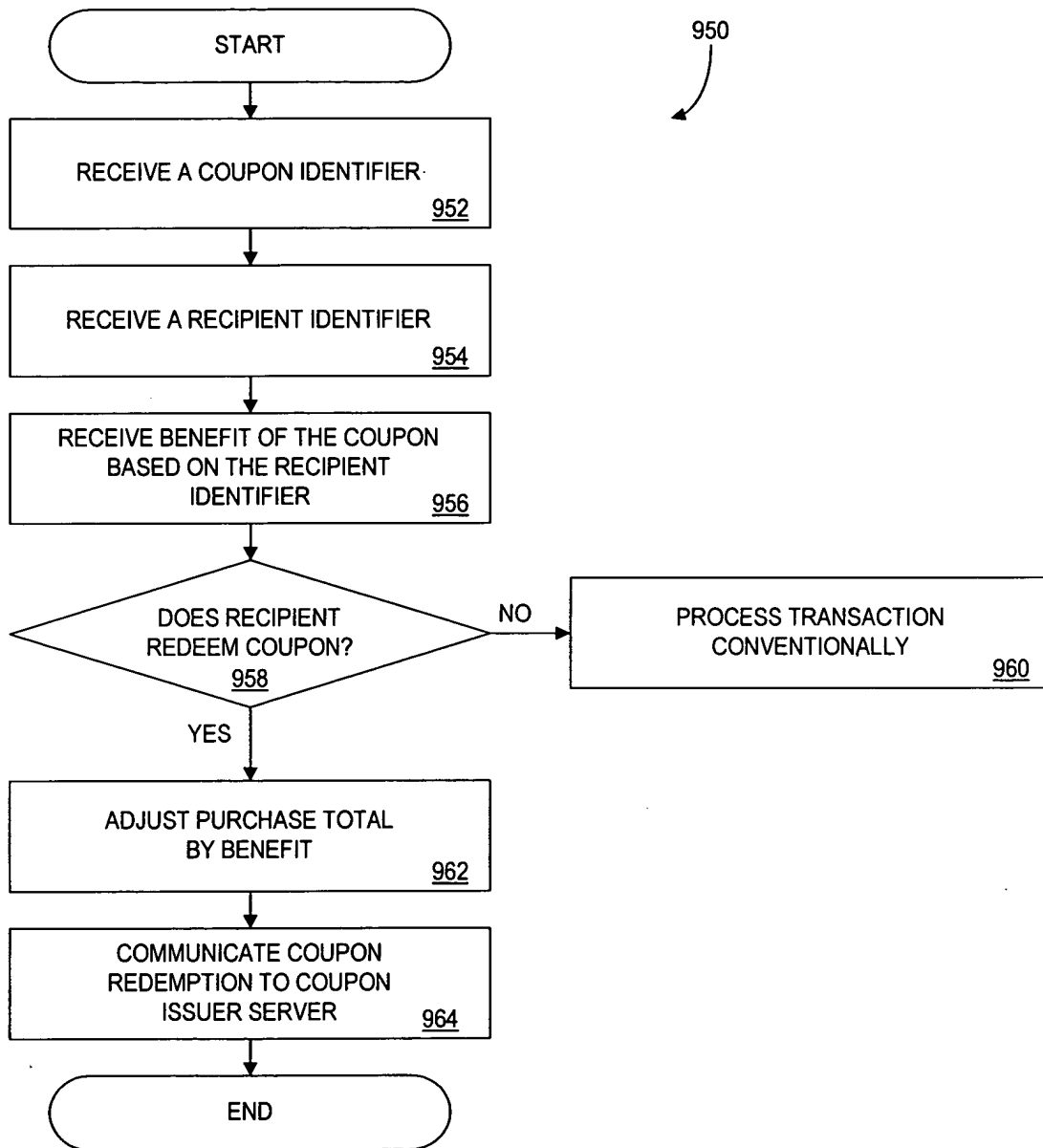


FIG. 19

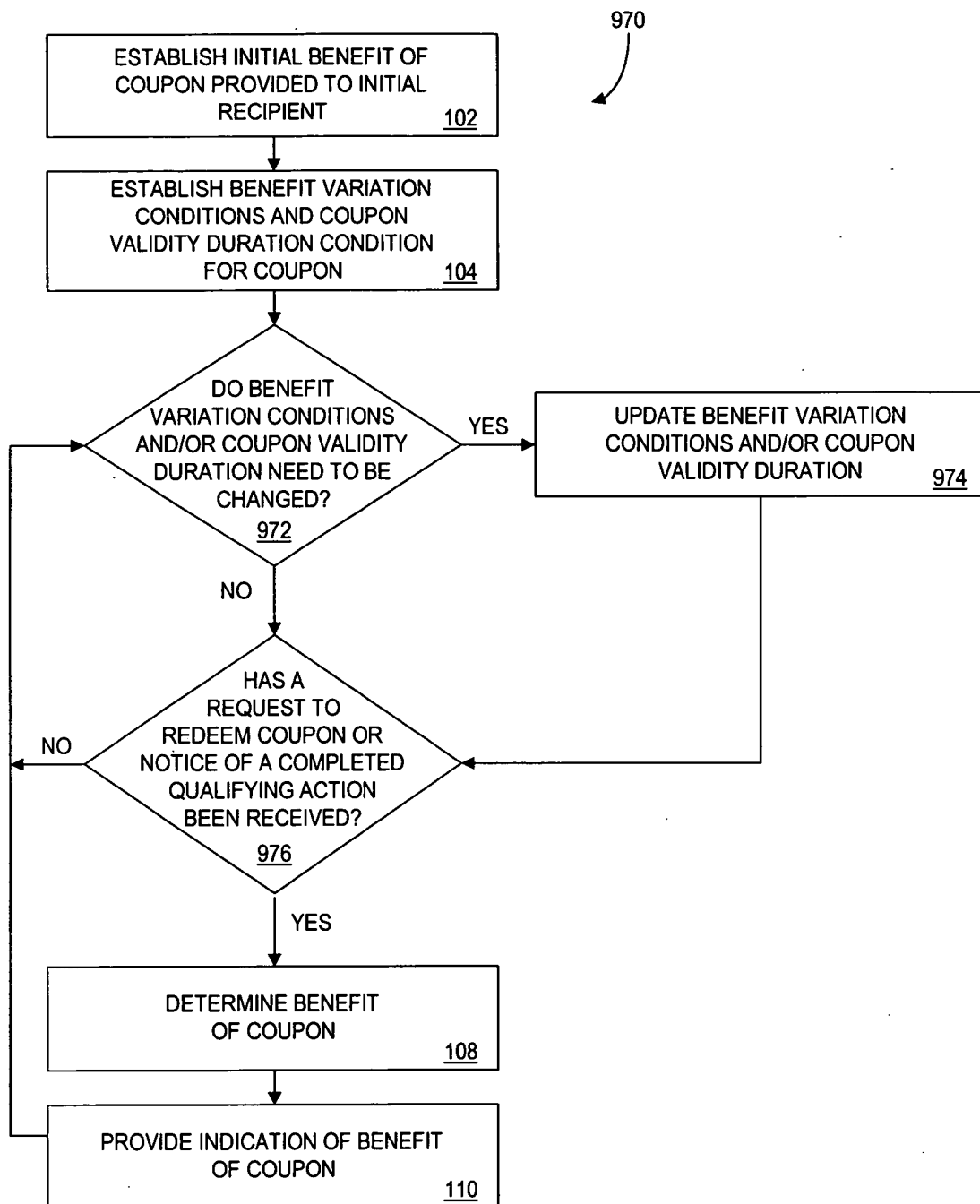


FIG. 20